

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Migaku TAKAHASHI et al.

Conf.

Application No. **NEW NATIONAL PHASE**

Group

Filed September 28, 2004

Examiner

PERPENDICULAR RECORDING MEDIUM,  
MAGNETIC RECORDER HAVING THE SAME,  
THE METHOD AND APPARATUS FOR  
PRODUCING THE PERPENDICULAR RECORDING MEDIUM

**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION CONCURRENT WITH THE**  
**FILING OF A NEW PATENT APPLICATION)**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

September 28, 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

**II. COPIES**

- ☐ Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- ☐ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned.

10/509244

DT04 Rec'd PCT/PTO 28 SEP 2004

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)a. ☐ DOCUMENTS IN THE ENGLISH LANGUAGE

The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. ☒ DOCUMENTS NOT IN THE ENGLISH LANGUAGE

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

English language abstracts are provided for some of Japanese patent references.

c. ☒ FOREIGN SEARCH REPORT OR ACTION

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ OTHER

The following additional information is provided for the Examiner's consideration.

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

Respectfully submitted,

YOUNG & THOMPSON



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BC/lmt

Enclosures: ☒ Form PTO-1449(s)

☐ Documents

☒ Foreign Search Report

☒ Other: English abstract of Japanese applications

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

(Use several sheets if necessary)

Attorney Docket No.:  
**8060-1009**Application No.:  
**2002-09244**  
**NEW NATIONAL PHASE**Applicant:  
**Migaku TAKAHASHI et al.**Filing Date:  
**September 28, 2004**

Group Art Unit:

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	11-134634	5/21/1999	JAPAN			*	
	2001-176048	6/29/2001	JAPAN			*	
	11-203654	7/30/1999	JAPAN			*	
	11-185237	7/9/1999	JAPAN			*	
	57-176531	10/29/1982	JAPAN			*	
	57-36435	2/27/1982	JAPAN			*	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Naohito HAYASHI, "Fe-Si-A1-N Jisei Hakumaku no Jiki Tokusei ni Oyobosu SiO2 Kachimaku no Koka", The Institute of Electronics, Information and Communication Engineers Zenkoku Taikai Koen Ronbunshu, March, 1989, Vol. 1989, No. Spring Pt. 5, pages 5 to 342
	Naohito HAYASHI, "Fe-Si-A1-N Gokin Hakumaku o Mochiita Suichoku Jiki Head", The Institute of Electronics, Information and Communication Engineers Zenkoku Taikai Koen Ronbunshu, March, 1988, Vol. 1988, No. Spring Pt. 2, pages 2 to 19
	Daishun Zheng, "Study on the Fe-A1-N Soft Magnetic Thin Films", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 08 November 2000, Vol. 100, No. 423, pages 73 to 78
	Hirofuka Hokkyo, "Media Noise Characteristics of CoCrTa/FeSiA1 Perpendicular Magnetic Recording Media", Journal of The Magnetics Society of Japan, 1997, Vol. 21, Supplemental No. S2, pages 517 to 520

EXAMINER:

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* English language abstract provided for the Examiner's convenience

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Y&amp;T September 28, 2004